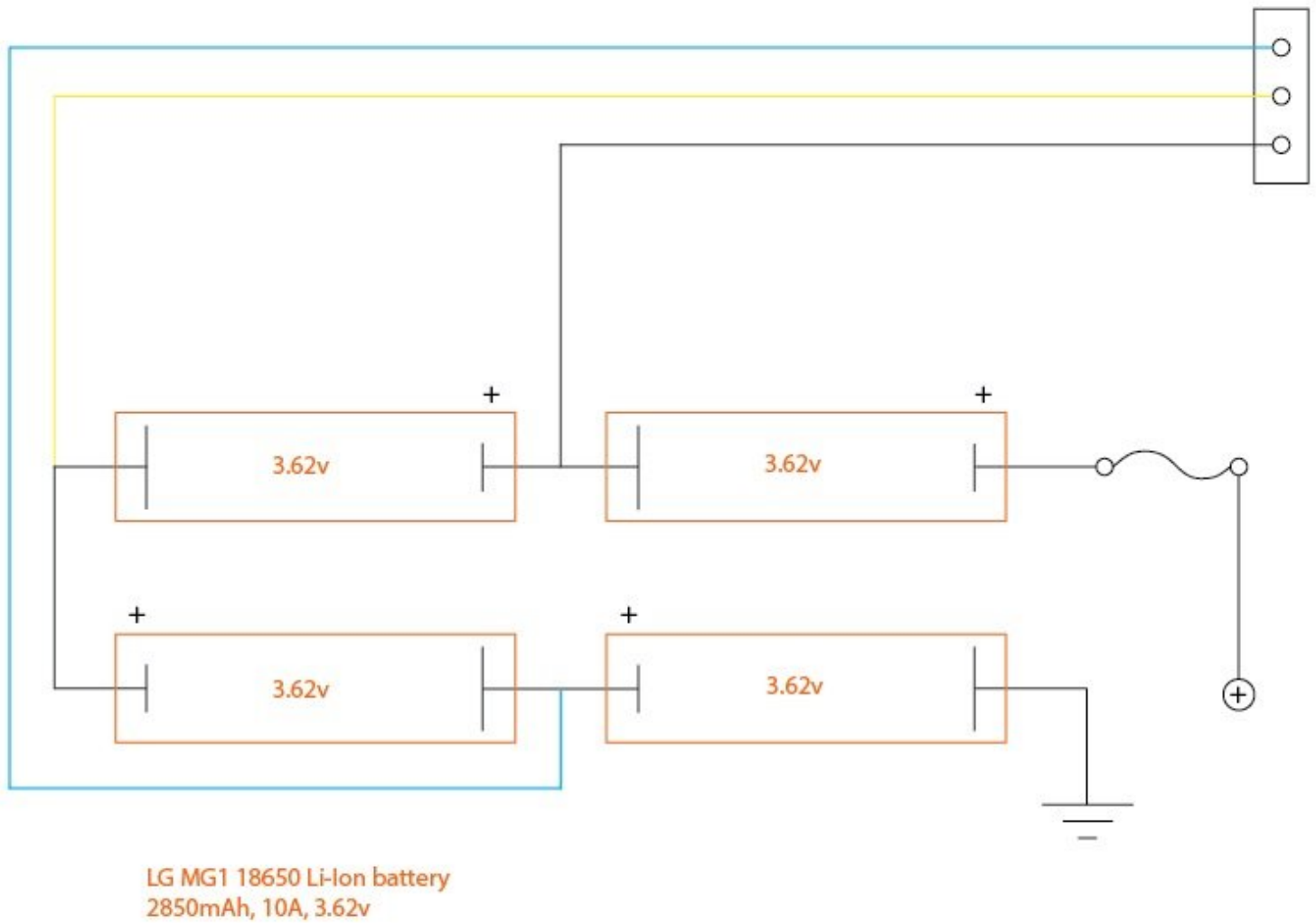




Bissell ION Rechargeable Vacuums Lithium Ion battery pack schematic

Schematic and instructions for replacing rechargeable battery pack for Bissell ION Bolt vacuums.

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INTRODUCTION

Schematic and instructions for replacing rechargeable battery pack for Bissell ION vacuums.



TOOLS:

- [Soldering Iron](#) (1)
- [Solder](#) (1)
- [Flux](#) (1)



PARTS:

- [18650 Battery](#) (4)
LG MG1 or equivalent

Step 1 — Battery



- Push the silver button to disconnect the dirt dish from the handheld vacuum.

Step 2



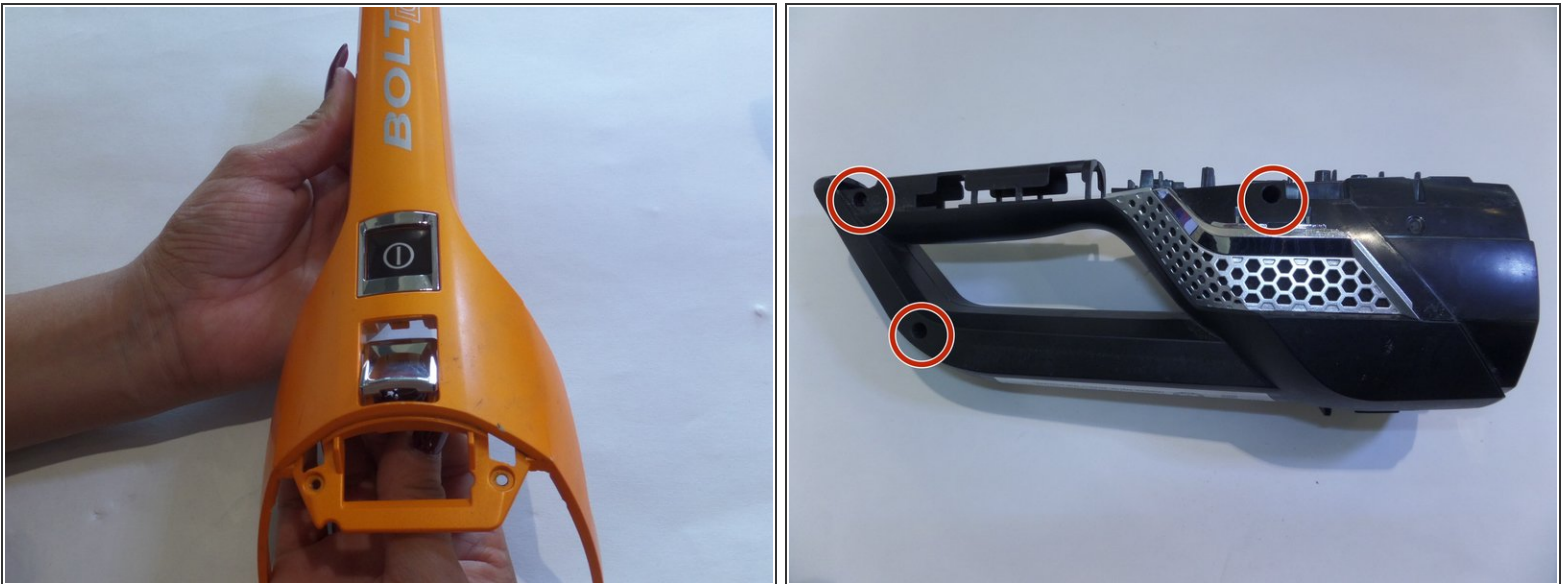
- Remove the four 4 .4cm screws using your P0 screwdriver head and screwdriver.
- Remove the Bissell sign to remove the two 4.4cm screws, using your P0 screwdriver head and screwdriver.

Step 3



- Using the metal spudger, insert and lift up to remove the frame from the body.
- Move along the line and repeat on the other side.

Step 4



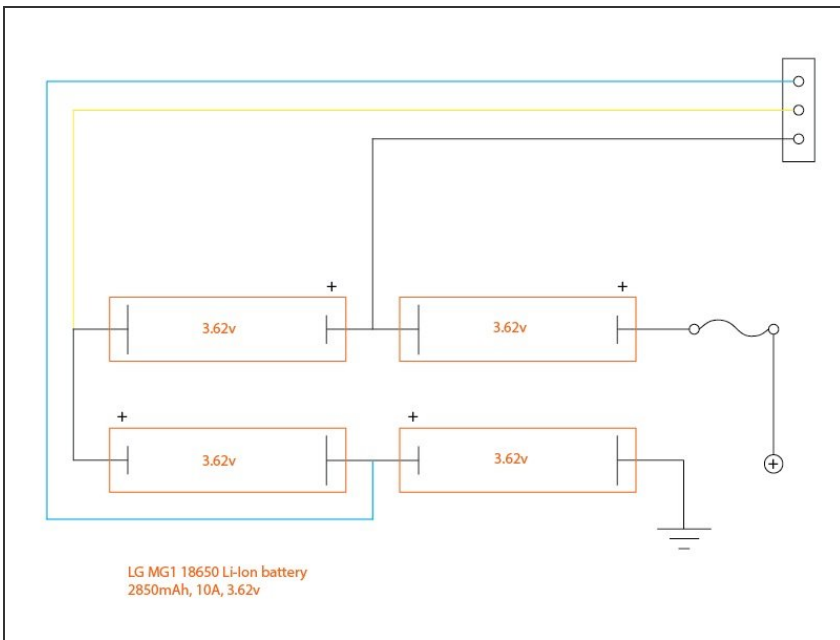
- Remove the orange frame
- Remove the 3 screws on the right side of the vacuum.

Step 5



- With metal spudger remove the metal clip on both sides.
- Pull device apart using great force

Step 6 — Battery Pack Schematic



- Three wires lead to a female connector, probably for cell balancing, voltage sensing, etc. They are blue, yellow and white (the black wire in this schematic.)
- The batteries are 18650 Li-Ion, LG MG1: 2850 mAh, 10A 3.62v
- The inline fuse on the (+) positive lead is F16AH250VP

Step 7 — Assembling the battery pack



- Detach old battery pack (photo 1) from circuit board. My power leads were crimped, and easily de-crimped with a needle nose pliers.
- Gently pry 3-wire female plug from circuit board.
- Disassemble/desolder old pack. Loosely assemble the new batteries. I used the old holding bracket (photo 2) and wires.
- Solder batteries together according to schematic (photo 3.) Wrap completed pack in shrink wrap or electrical tape.
- Connect (+) and (-) leads with crimps, solder, or small wire nuts. I used wire nuts.
- Reconnect 3-wire plug to circuit board.
- Place battery pack in handle location, and reassemble vacuum.

There are no replacement battery packs available for the Bissell Bolt-ION series of rechargeable vacuum cleaners. Shame.

But making your own is easy if you have moderate soldering skills.

Get replacement batteries with soldering tabs. Four new ones should be about \$25.